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Project Title:	Electricity and Gas Demand Forecast
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Document Title:	Presentation - Data Center Forecast Draft Results
Description:	6 Jeremy Smith, CEC
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Docketed Date:	11/9/2026



2026 IEPR Data Center Demand Forecast Draft Results

Jeremy Smith
Demand Analysis Branch, Energy Assessments Division
November 12, 2026

Data Center Forecast Methodology



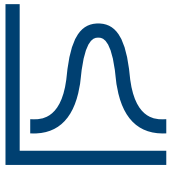
Request data center energization requests from utilities*

- Application status*, requested capacity, timeline, location



Apply assumptions to determine maximum demand

- Confidence level*, utilization factor, ramp rate

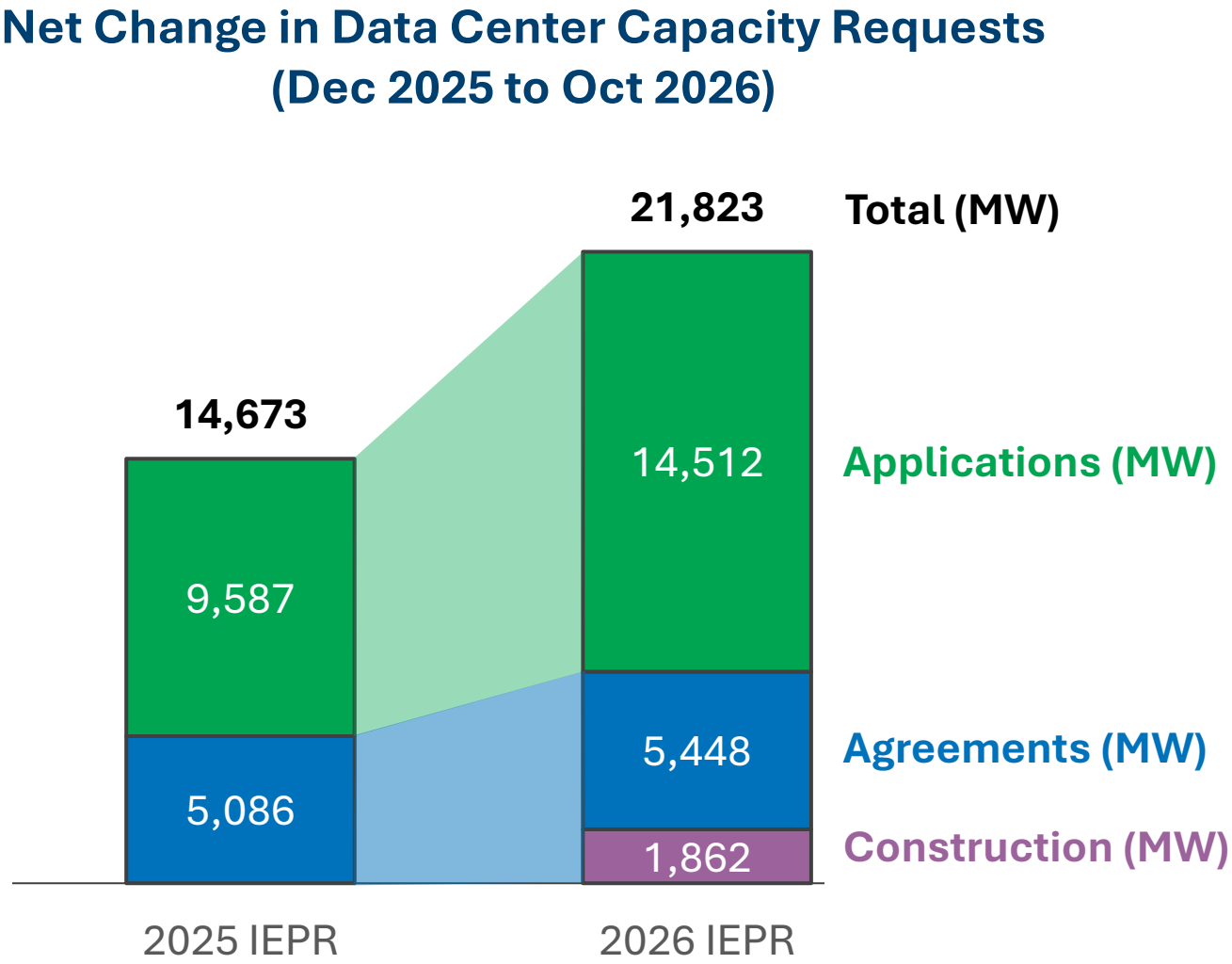


Analyze interval meter data to determine hourly/peak contribution

- Develop hourly load factor profiles from sample of existing data centers

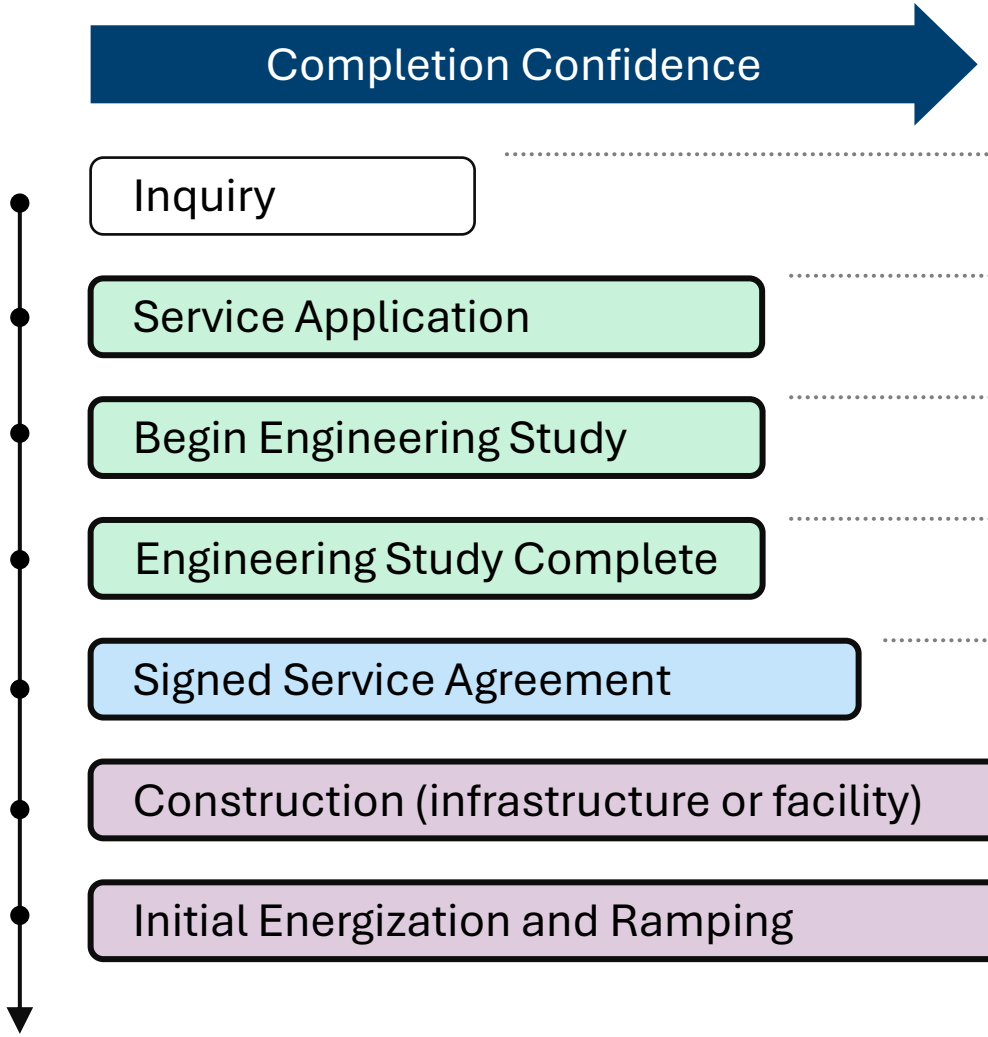
*updated for 2026 IEPR forecast

Data Center Requested Capacity (2025 vs. 2026)



Source: CEC Staff

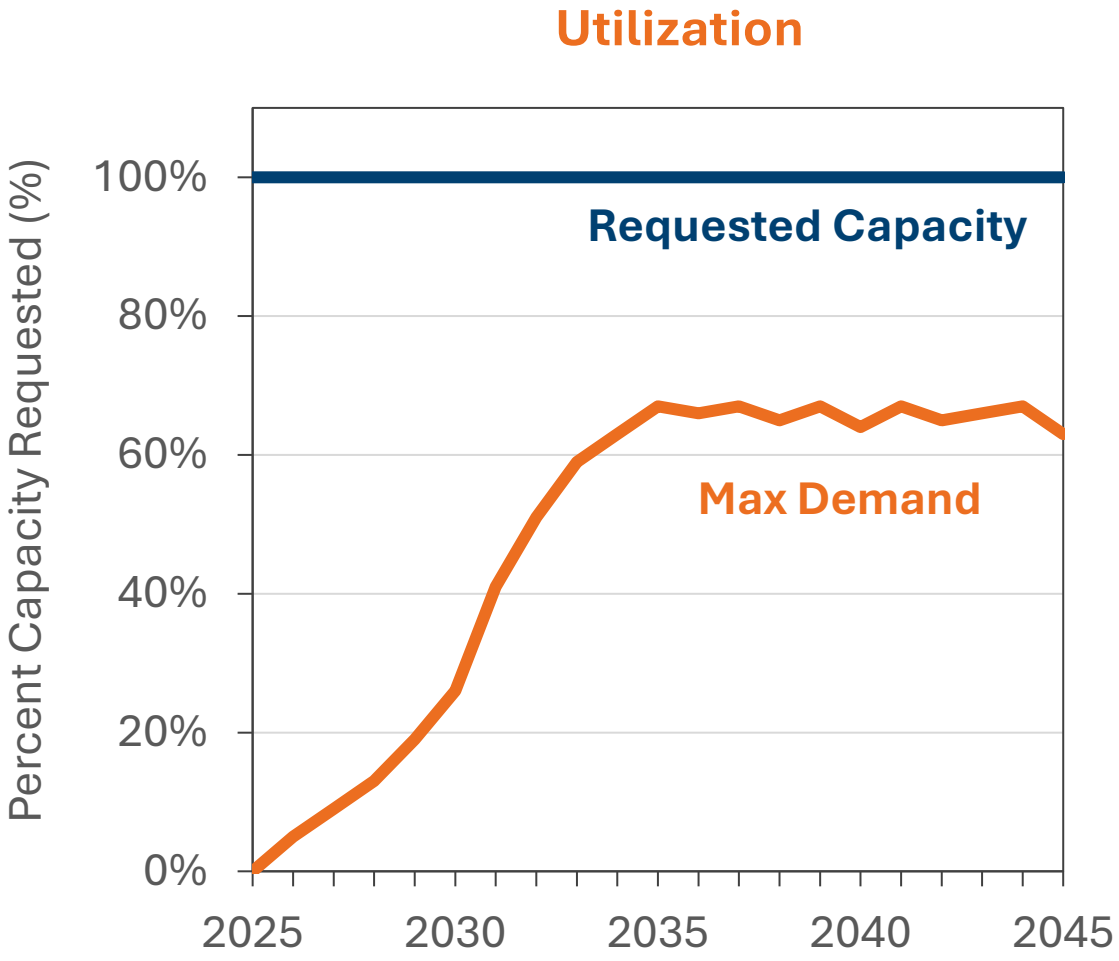
Energization Milestones and Project Groupings

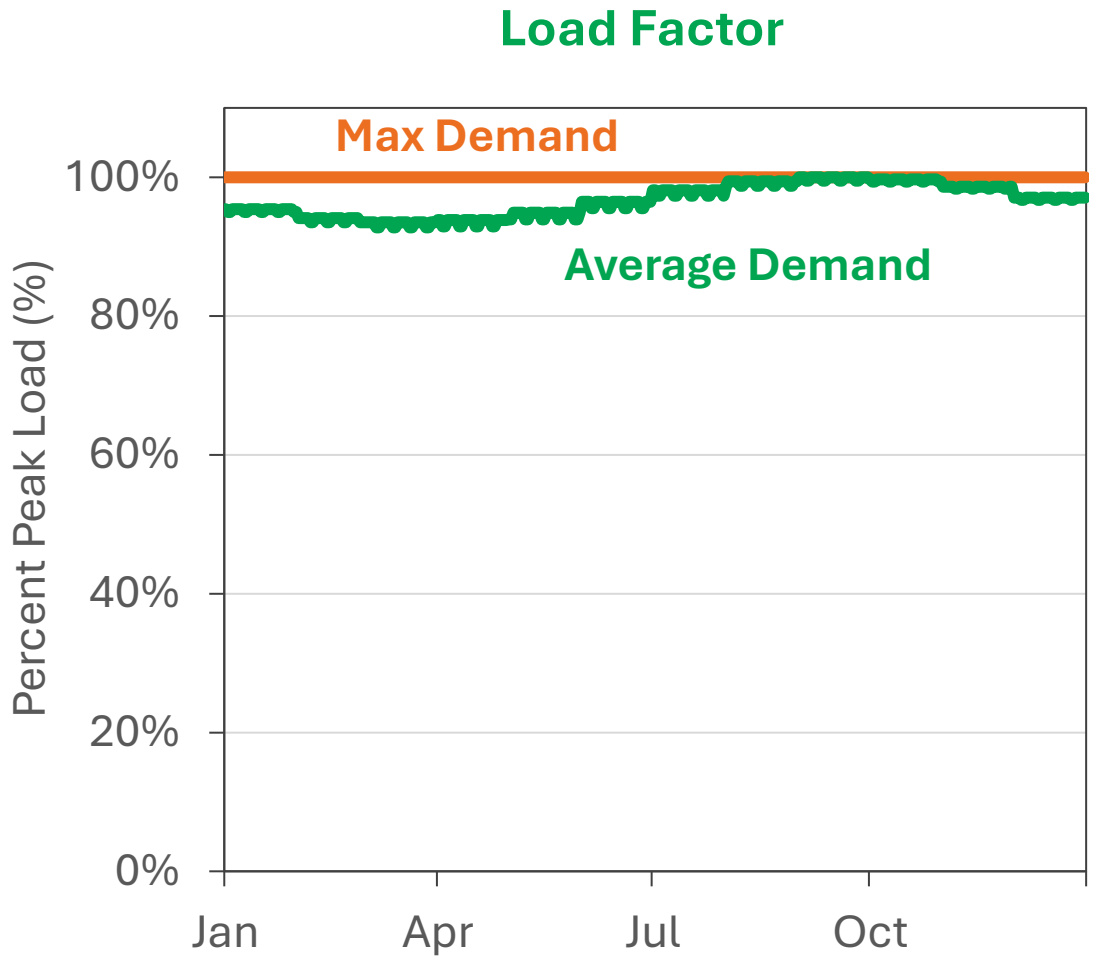


2024 IEPR	2025 IEPR	2026 IEPR
Group 3	Group 3	
Group 2		
	Group 2	**Group 3**
Group 1		
	Group 1	**Group 2**
		Group 1

Source: CEC Staff

Utilization vs. Load Factor

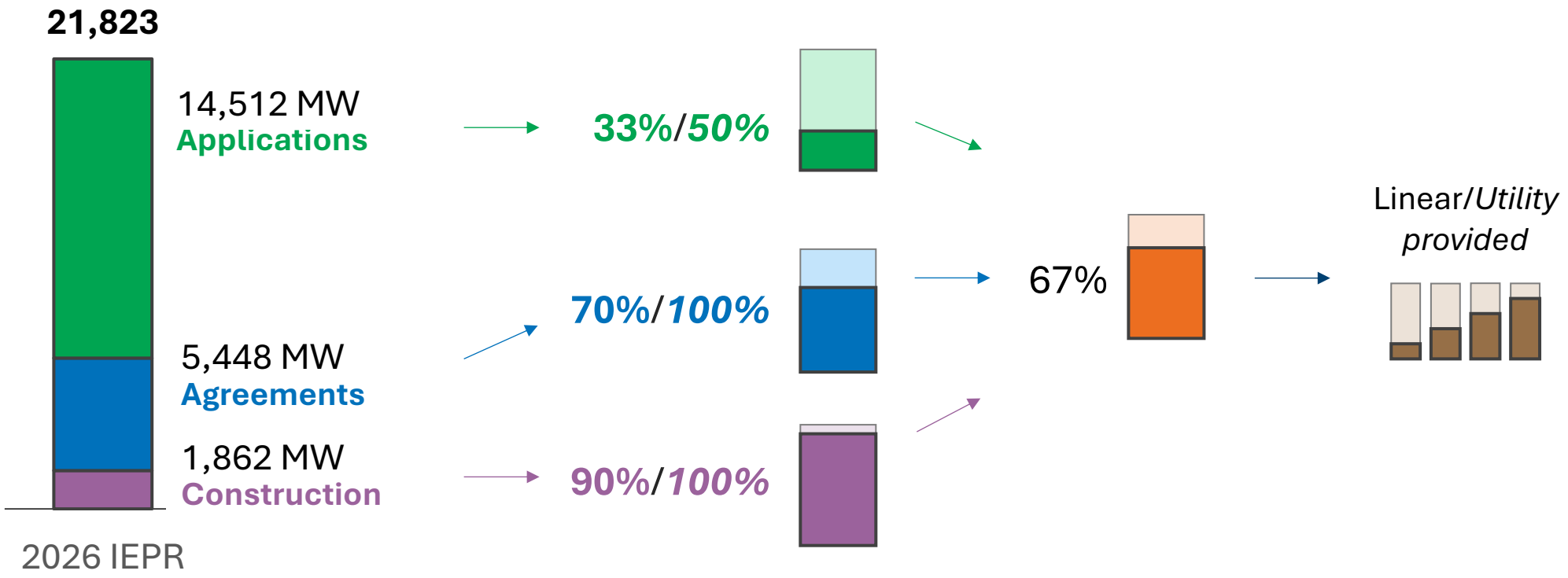




Source: CEC Staff

Assumptions Applied to the 2026 IEPR Forecast

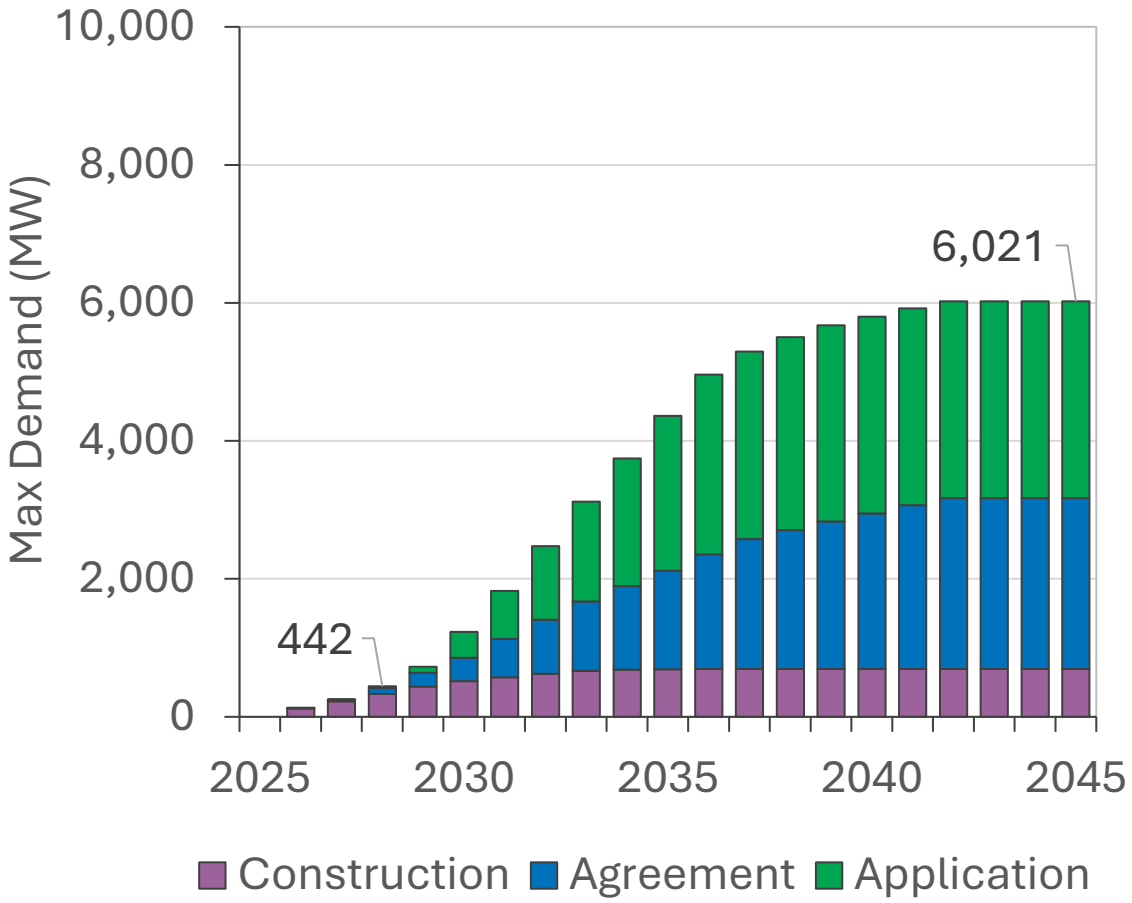
Data Center Capacity Requests (Oct 2026, MW) x **Confidence Levels** (mid/*high*) x **Utilization Factor** x **Ramp Rate** (mid/*high*)



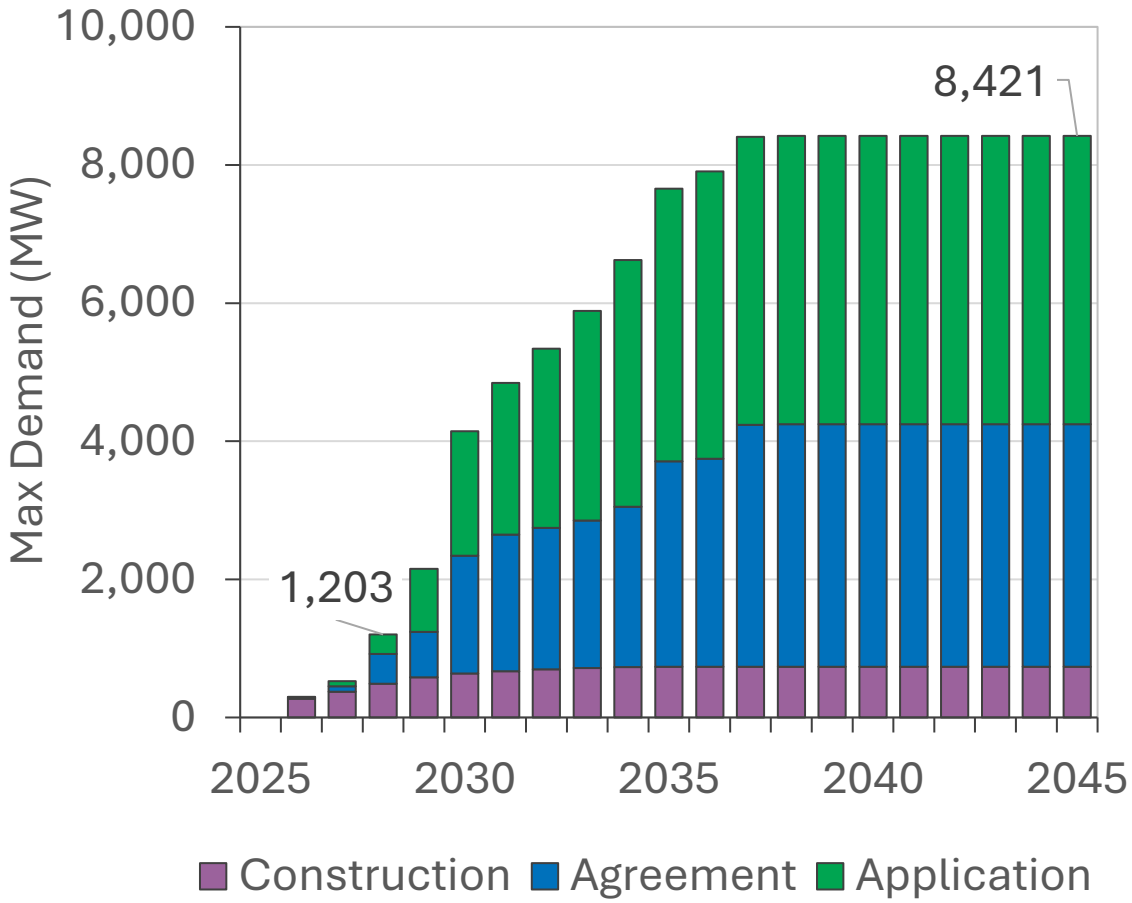
Source: CEC Staff

Statewide Data Center Demand Growth

2026 IEPR: Planning
(Statewide, mid)

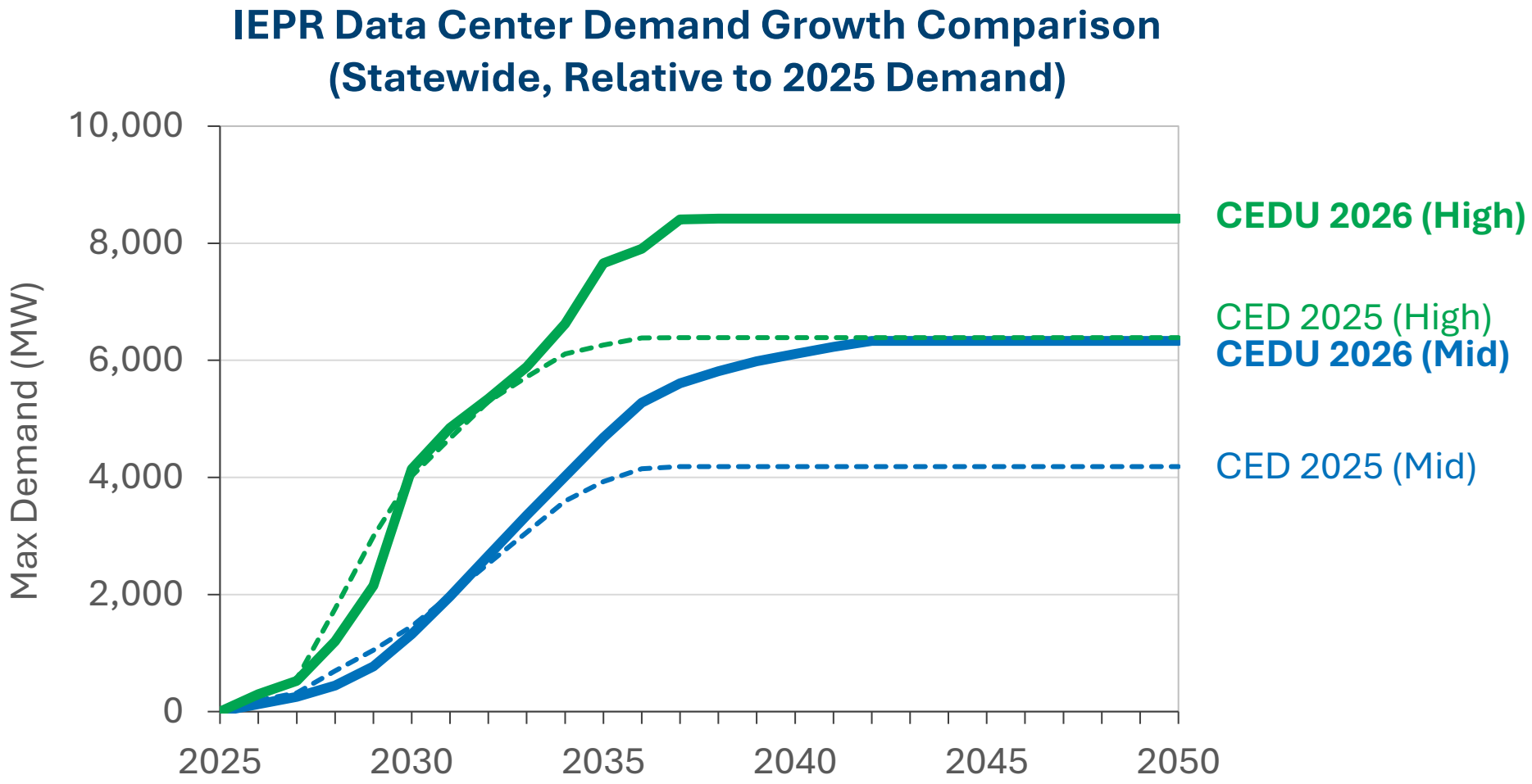


2026 IEPR: Local Reliability
(Statewide, high)



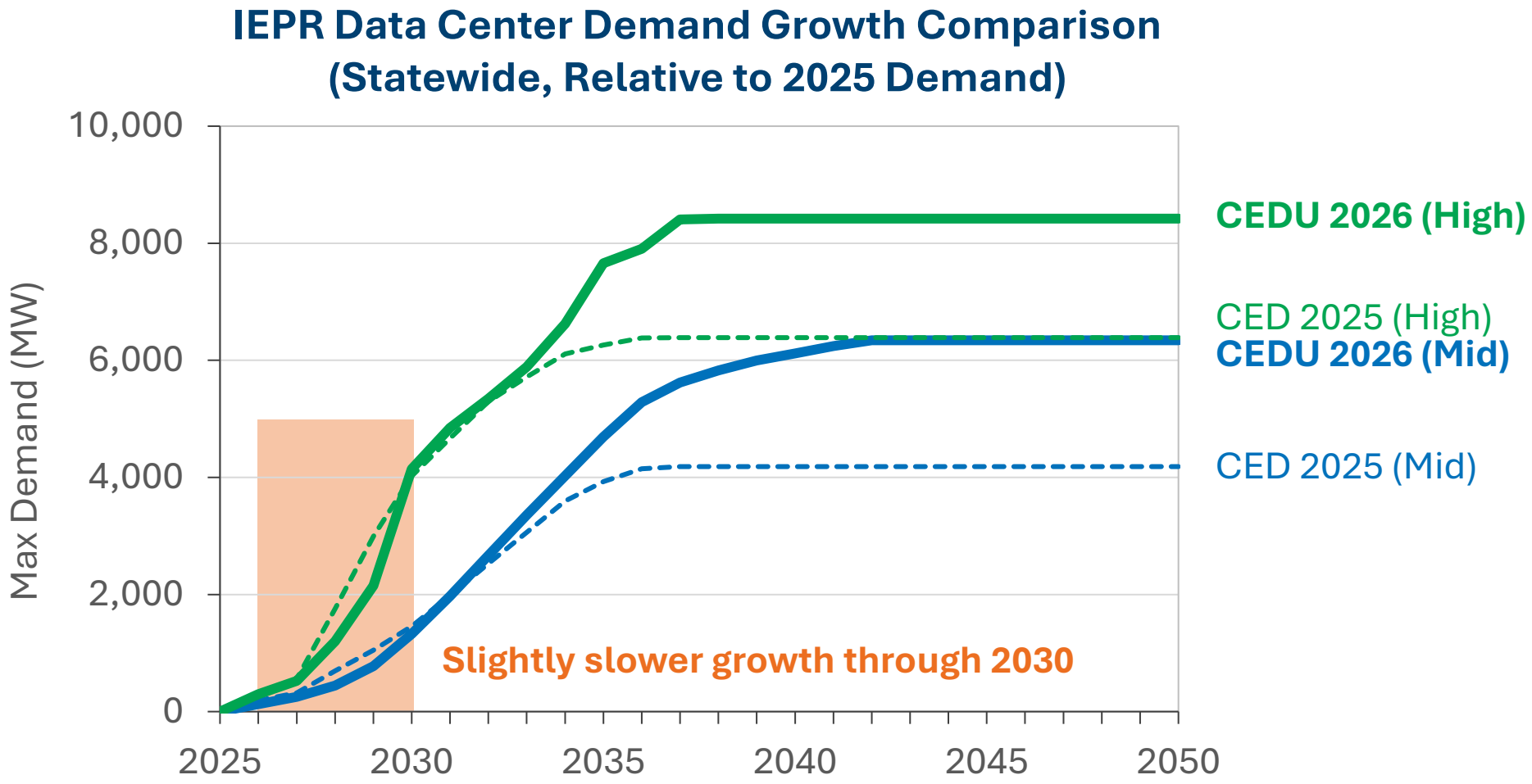
Source: CEC Staff

Statewide Data Center Demand Growth Comparison



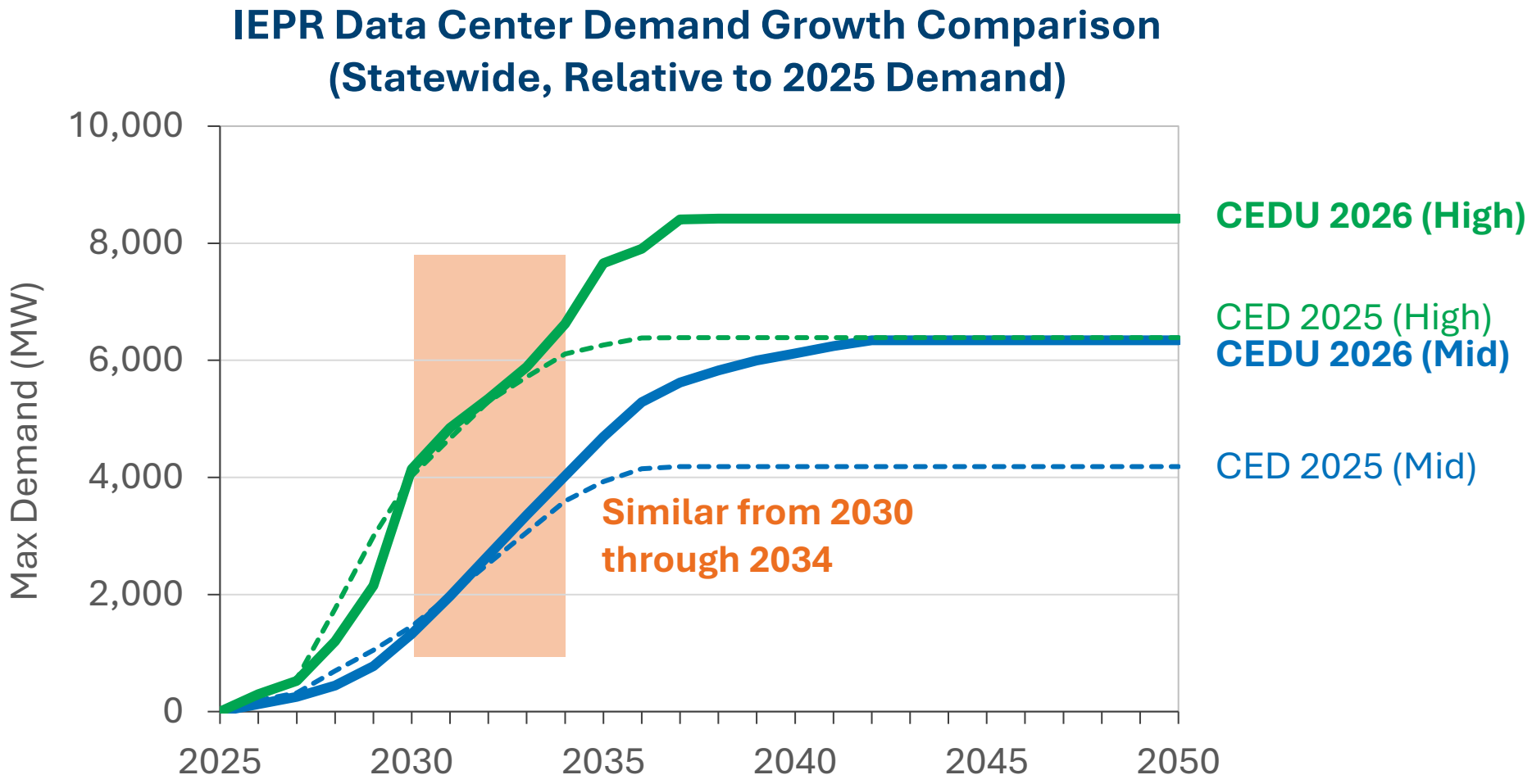
Source: CEC Staff

Data Center Demand Growth Comparison (1 of 3)



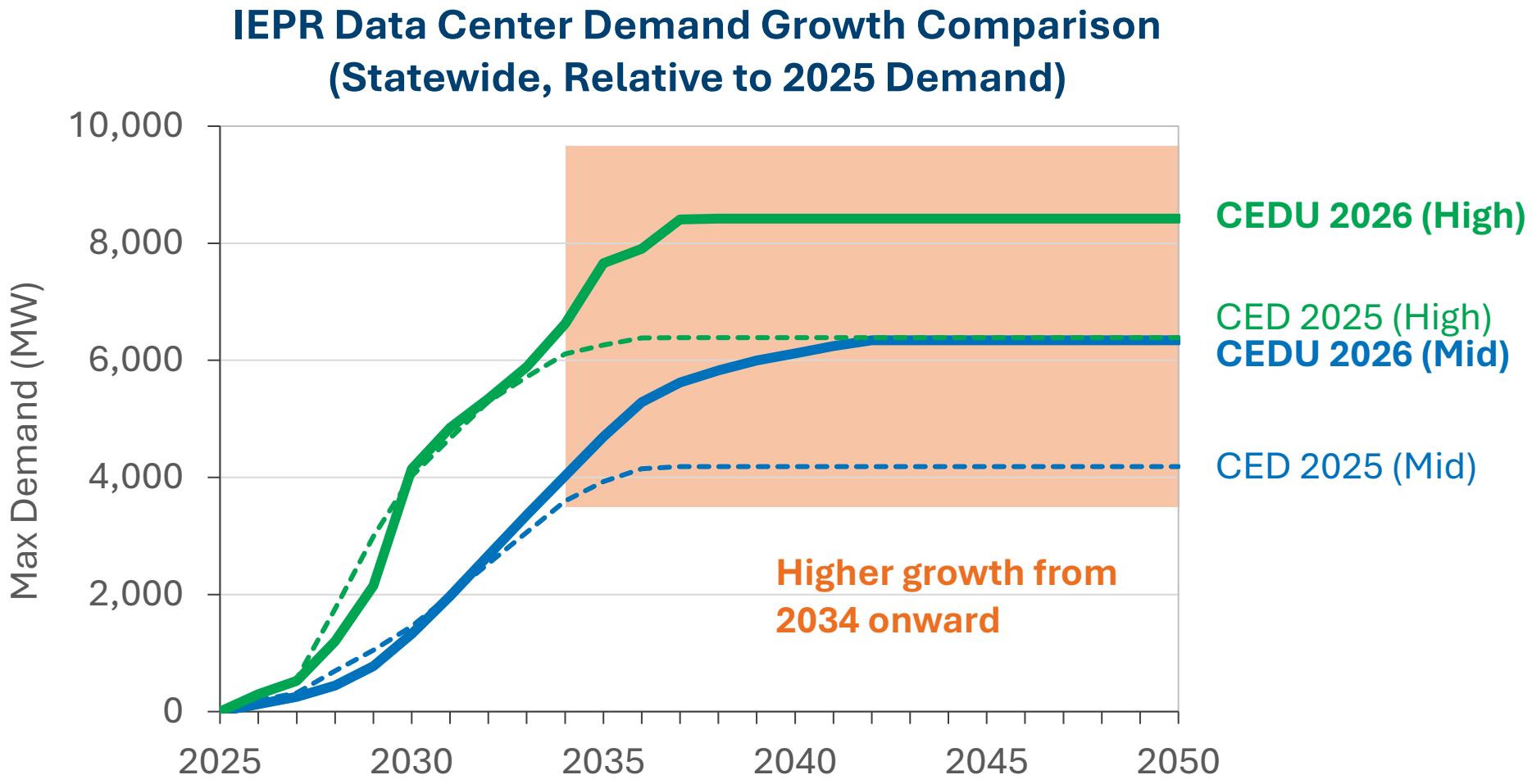
Source: CEC Staff

Data Center Demand Growth Comparison (2 of 3)



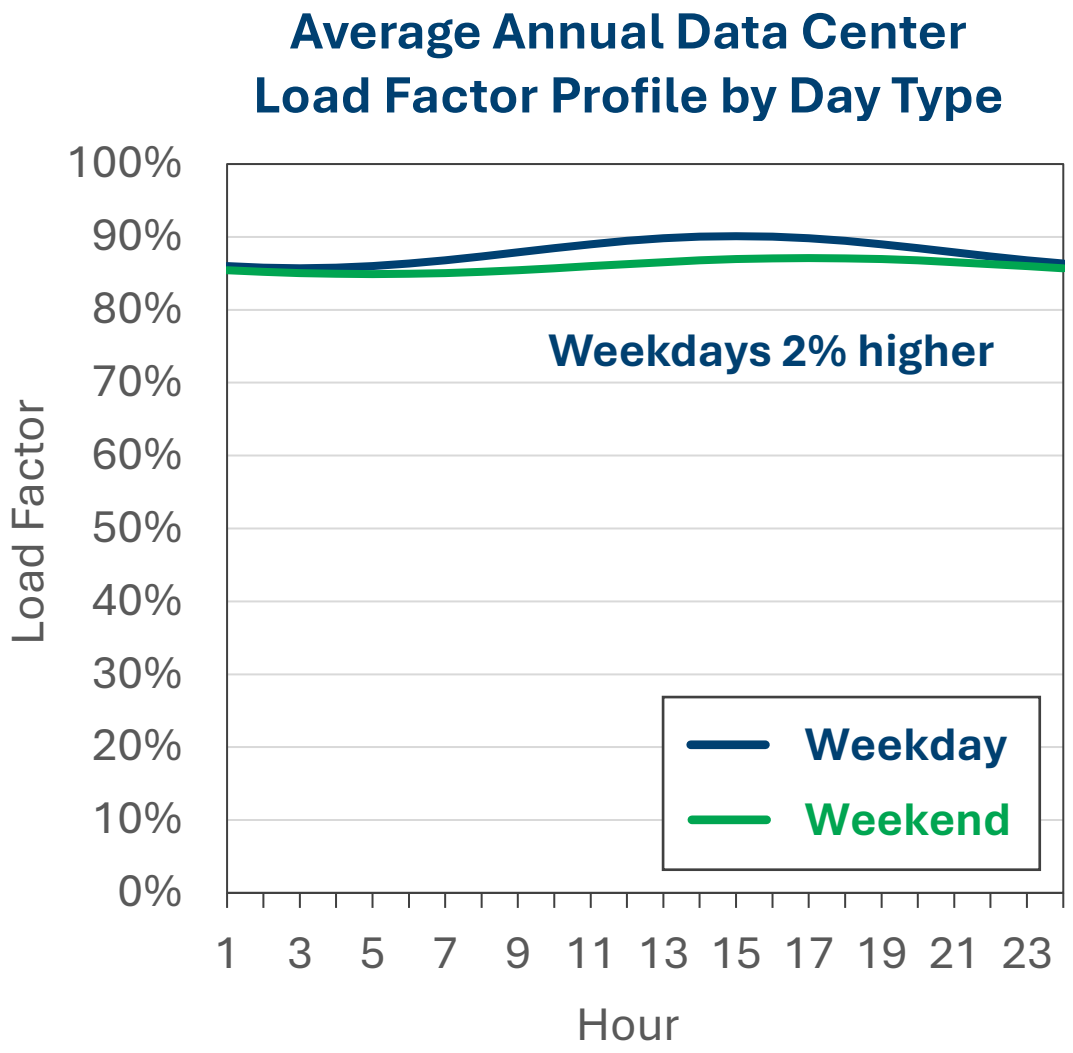
Source: CEC Staff

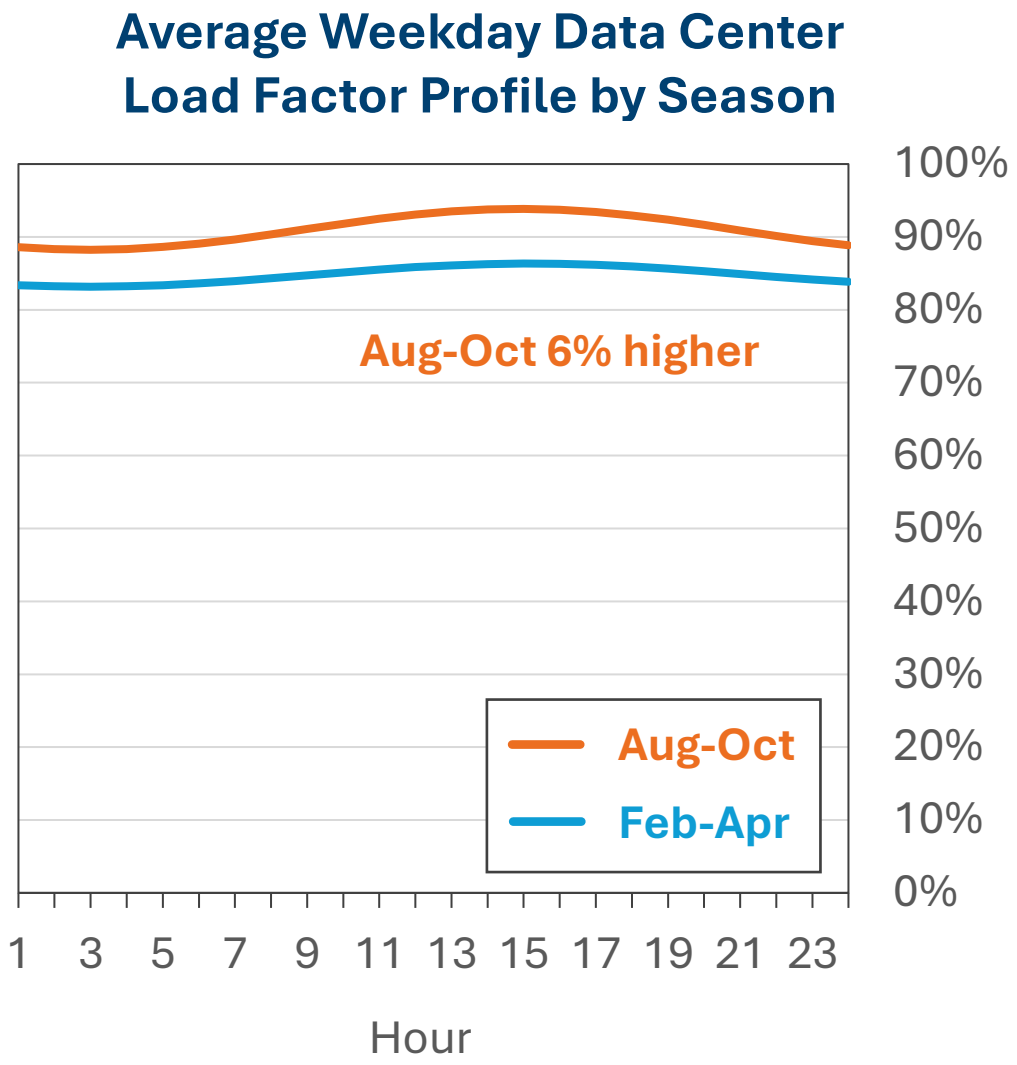
Data Center Demand Growth Comparison (3 of 3)



Source: CEC Staff

Hourly Load Factor Profiles (2026 IEPR)





Source: CEC Staff

2026 IEPR Methodological Improvements

- Increase engagement with utilities and CCAs
- Improve project tracking beyond signed agreement for service
- Build a longitudinal dataset to track project milestone progress over time
- Track potential for sites to provide their own generation
- Improve visibility into emerging data center projects for CCAs and other LSEs

Additional Goals for 2027 IEPR Cycle

- Develop unique load profiles for various data center types and/or sizes
- Further standardize project milestones and associated confidence levels
- Collect and incorporate local data, including proof of land ownership and building permits, into forecast assumptions
- Track and consider how to local data center development restrictions into confidence levels and ramp schedules

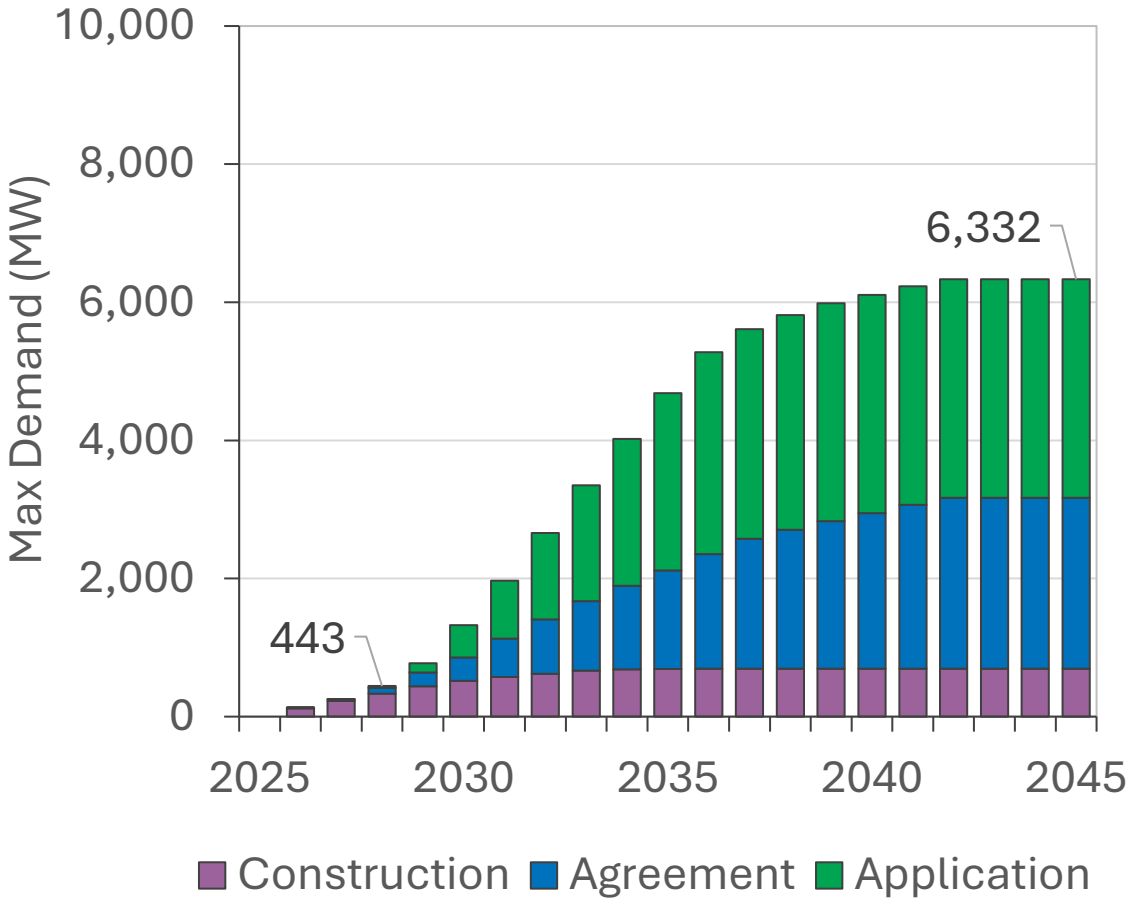
Thank You!

Jeremy Smith, Supervisor
Sector Modeling Unit, Demand Analysis Branch
Energy Assessments Division
Jeremy.Smith@energy.ca.gov

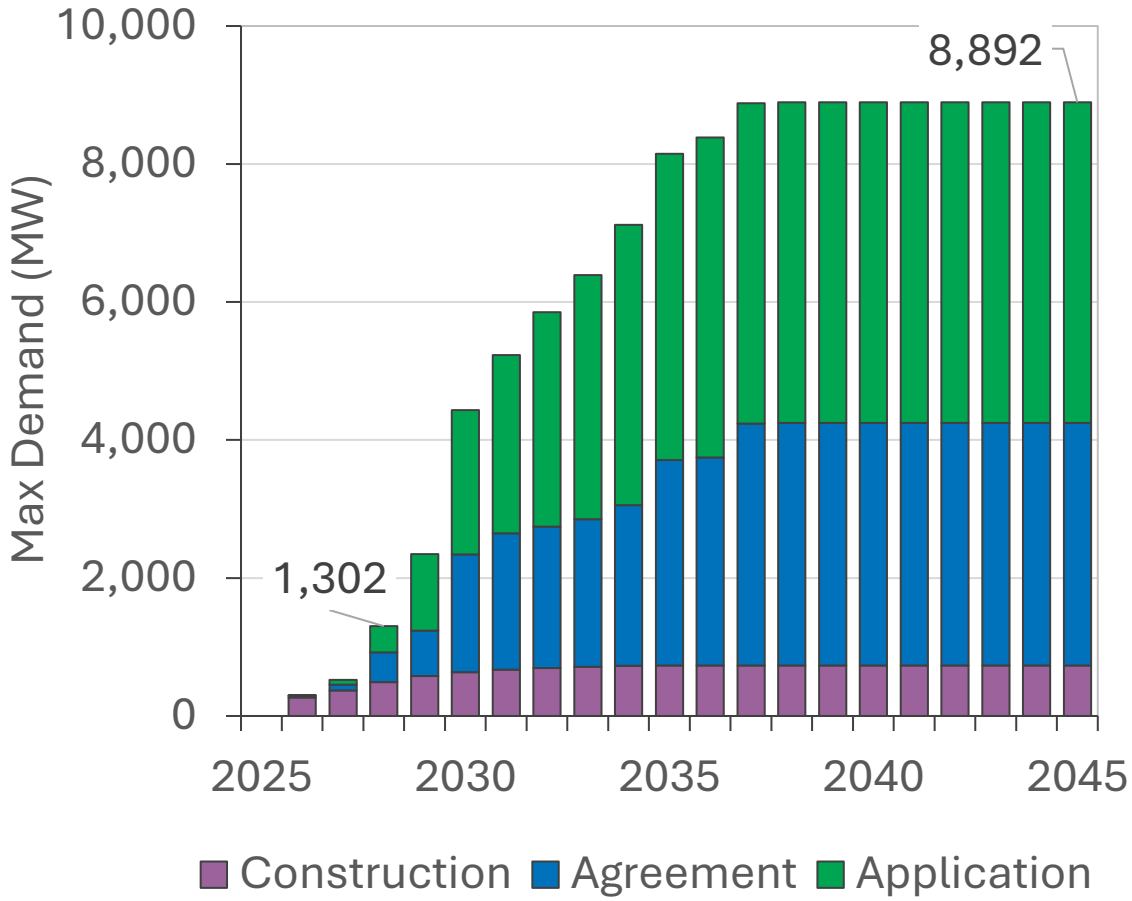
Appendix: CAISO Data Center Results

CAISO Data Center Demand Growth

2026 IEPR: Planning (CAISO, mid)

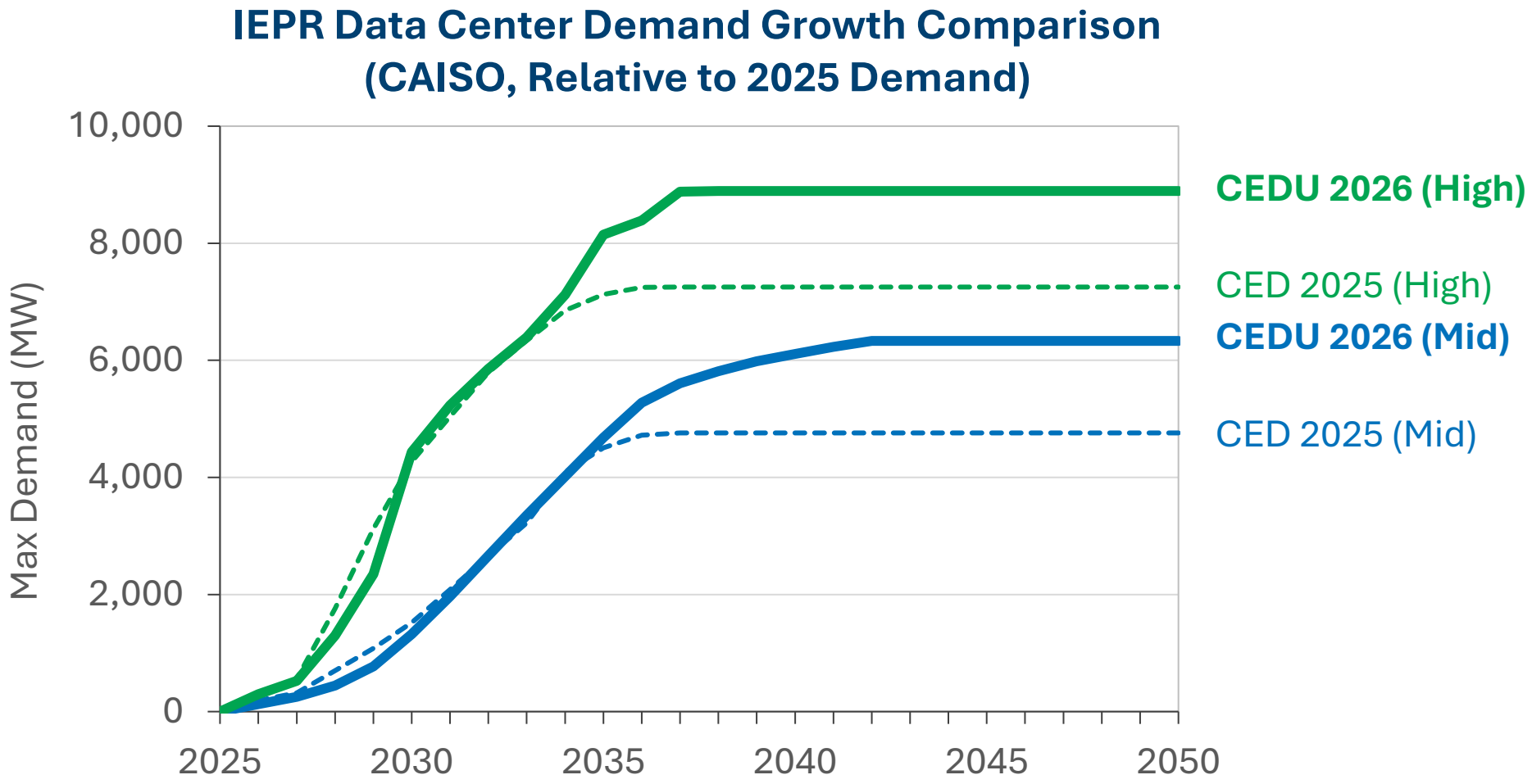


2026 IEPR: Local Reliability *(CAISO, high)*



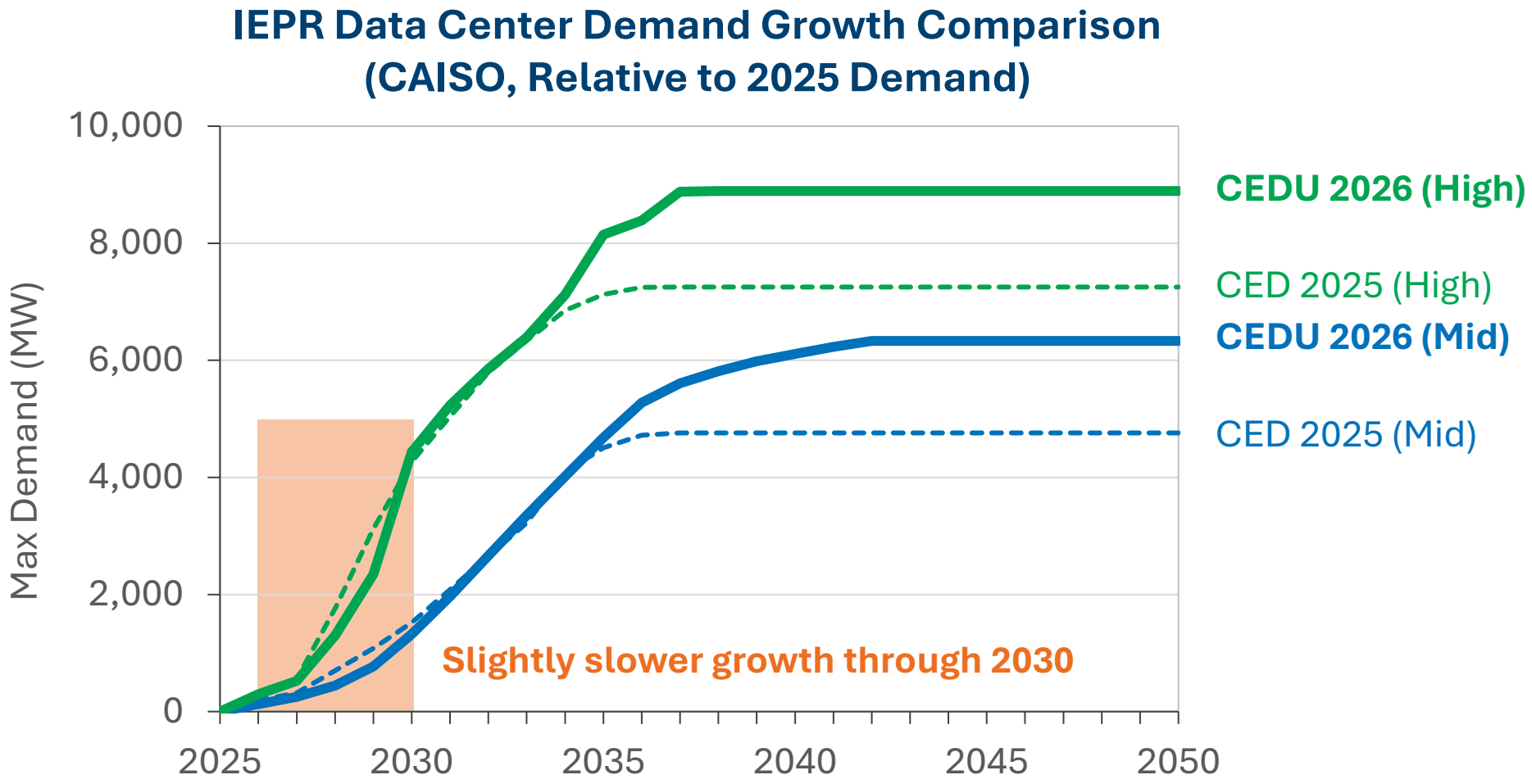
Source: CEC Staff

CAISO Data Center Demand Growth Comparison



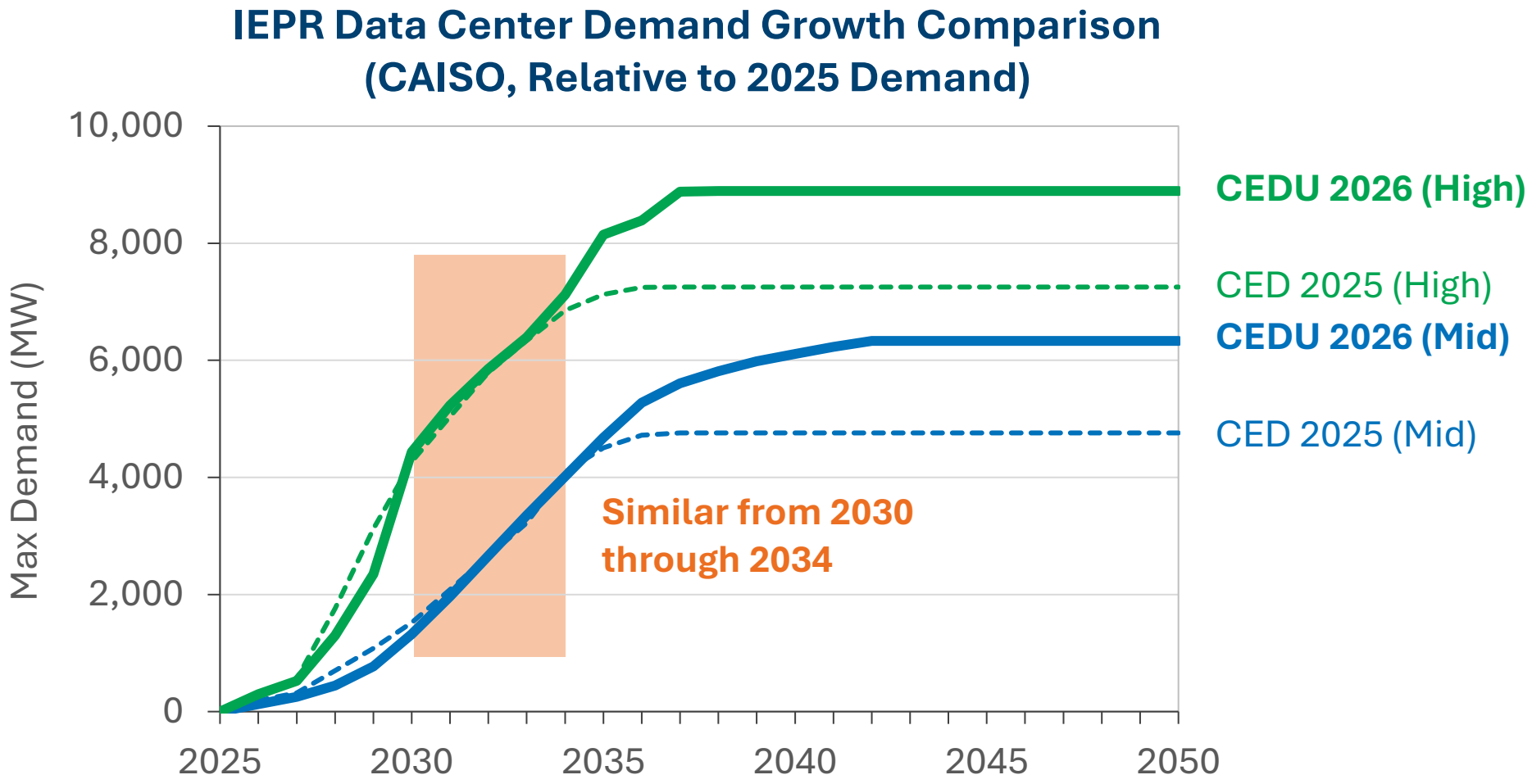
Source: CEC Staff

Data Center Demand Growth Comparison (1 of 3)



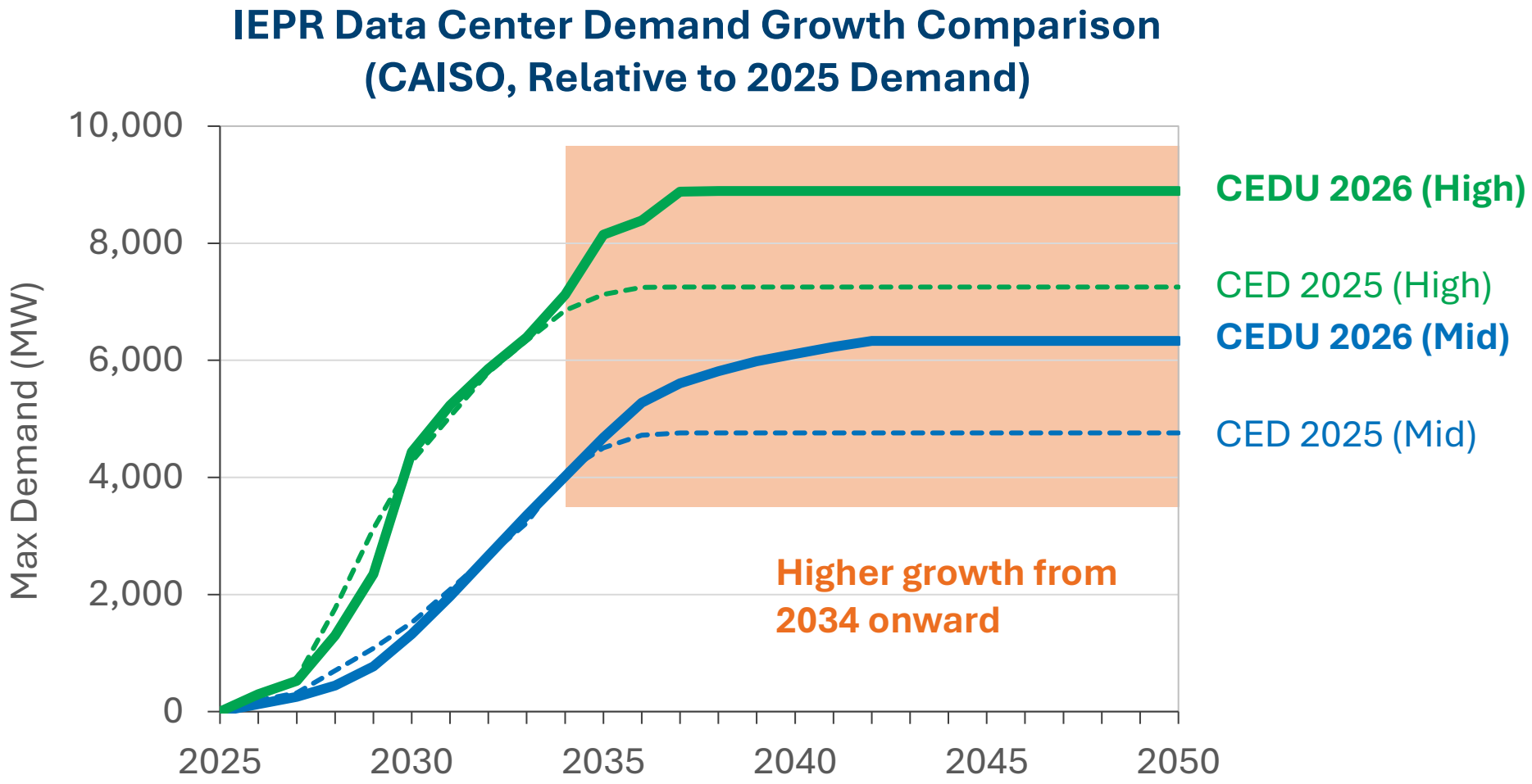
Source: CEC Staff

Data Center Demand Growth Comparison (2 of 3)



Source: CEC Staff

Data Center Demand Growth Comparison (3 of 3)



Source: CEC Staff